Clarke®

POWER

GENERATOR

MODEL NO: FG3050

PART NO: 8857705

OPERATION & MAINTENANCE INSTRUCTIONS

LS0310

INTRODUCTION

Thank you for purchasing this CLARKE Generator.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

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GENERAL SAFETY RULES

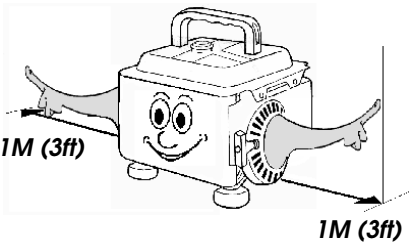
WARNING: EXHAUST FUMES CAN BE EXTREMELY DANGEROUS IF INHALED

WORK AREA

- ***Always use in a well ventilated area.***
- ***Always position the exhaust outlet away from people.***
- ***Never use indoors or in a confined space.***
- **Read these safety instructions before using the equipment.**
- **Keep children away from the generator**

POSITIONING THE GENERATOR

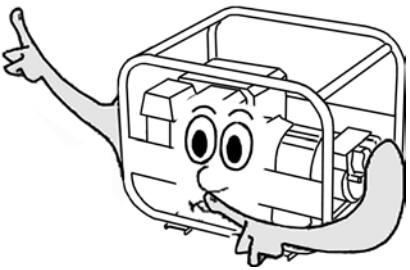
1. ***Always*** leave a least a 1M gap between the generator and any surrounding building or structures.
2. ***Always*** ensure the generator is on a solid, flat surface.
3. ***Always*** ensure the surrounding area is free from any material that could burn or be damaged by heat.



4. ***Never*** move or tilt the generator whilst it is switched on.

FIRE PREVENTION

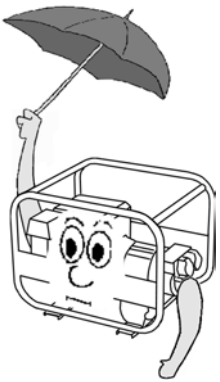
1. ***Always*** switch the engine OFF when refuelling.
2. ***Always*** refuel away from any source of heat.
3. ***Always*** refuel in a well ventilated area.
4. ***Never*** overfill the tank, fill to the level specified (See "Checking the fuel level" on page 10.).



5. ***Never*** smoke whilst refuelling and avoid smoking or using a naked flame near the generator.

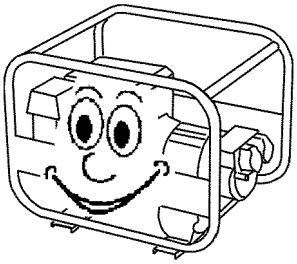
6. ***Never*** start the engine if there is spilled fuel. Any spillage must be wiped clean and the generator allowed to dry before attempting to start the engine.

PREVENTION OF ELECTRIC SHOCK

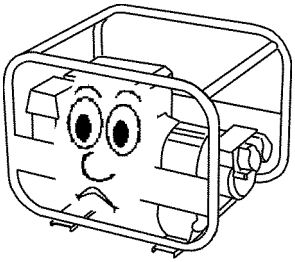


1. ***Never*** use the generator in wet conditions unless it is well protected/ covered. Under these conditions, adequate ventilation MUST be provided.
2. ***Never*** operate the generator with wet hands.
3. ***Never*** use water or any other liquids to clean the generator.

ADDITIONAL SAFETY RULES FOR GENERATORS



1. ***Always*** ensure the applied load does not exceed the generator rating. Overloading the generator is dangerous and could cause serious damage.
2. ***Always*** disconnect the generator when carrying out any maintenance.
3. ***Always*** ensure the generator reaches operating speed before connecting a load.
4. ***Never*** allow the generator to run out of fuel when a load is connected.



5. ***Never*** transport the generator with fuel in the tank.
6. ***Do Not*** connect to a commercial or residential power supply; e.g. ring main.
7. ***Never*** allow the generator air vents to become blocked.

SAFETY SYMBOLS

Caution - The user should be aware of a general hazard

Dangerous Voltage

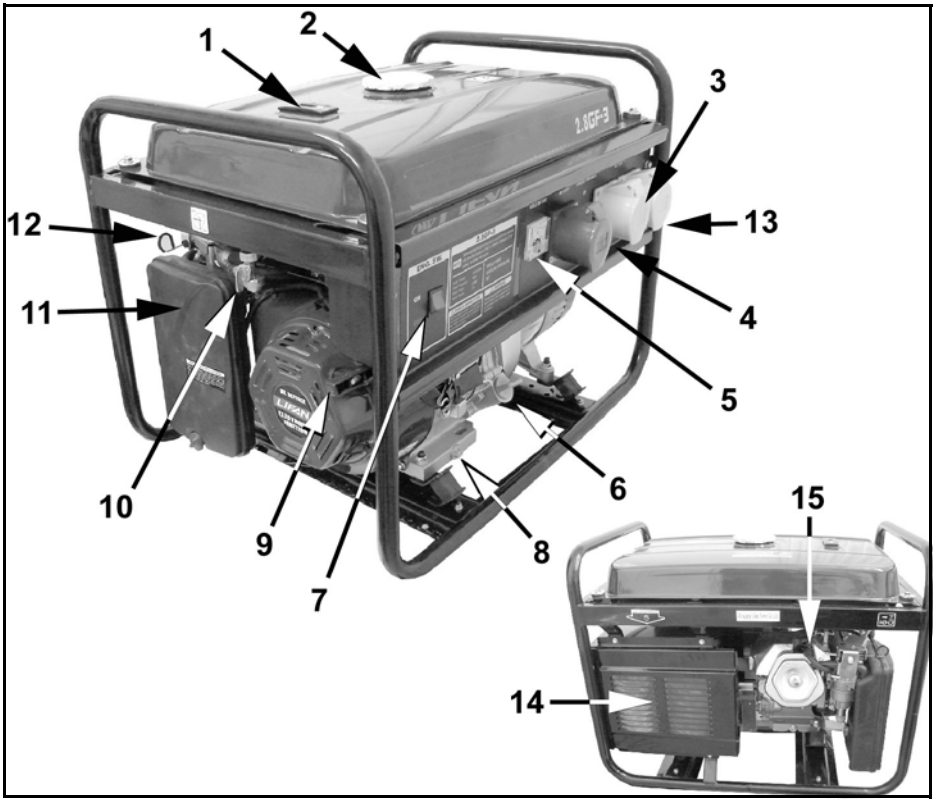
Flammable

Hot Surface - Do not touch

Poisonous fumes - Do not use the generator in an enclosed space.

Read Instruction manual before use.

GENERATOR OVERVIEW



NO	DESCRIPTION	NO	DESCRIPTION
1	Fuel level gauge	9	Starting handle
2	Fuel tank cap	10	Fuel supply valve
3	AC plug sockets (2x115V, 1 x 230V)	11	Air filter
4	AC circuit breaker	12	Choke Lever
5	Voltmeter	13	Earth terminal
6	Dipstick	14	Muffler
7	Engine switch	15	Spark plug
8	Drain plug		

UNPACKING AND ASSEMBLY

Unpack your Generator and check to ensure the following items are present. Should there be any deficiency or damage caused during transit contact your Clarke dealer immediately.

- The Generator
- Spark Plug Box Spanner
- Tommy Bar

BEFORE USING THE GENERATOR

IMPORTANT: Generators should ALWAYS be earthed.

Attach a suitable earth lead to a good earth - water pipe, ground spike etc., whenever you use this generator.

Before using your generator check that:

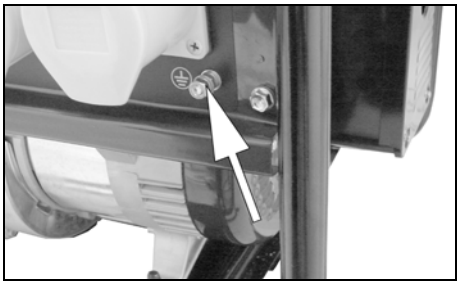
- The generator is in good condition and free from any damage.
- The generator is clean and free from fuel or oil spillage.
- The generator is correctly located for use (See page 4).
- The fuel system and connectors are intact and there is no leakage.

NOTE: Always use a funnel to fill the fuel tank so as to avoid accidental spillage of fuel. If fuel is spilled it must be removed from the unit before attempting to start the engine.

WARNING: ENSURE THERE IS ADEQUATE FUEL IN THE TANK WHEN USING THE GENERATOR. RUNNING OUT OF FUEL OR STOPPING THE ENGINE SUDDENLY WITH A LOAD CONNECTED COULD CAUSE SERIOUS DAMAGE.

EARTH POINT

Always connect the generator to an earth point. The earth terminal is shown on the right.

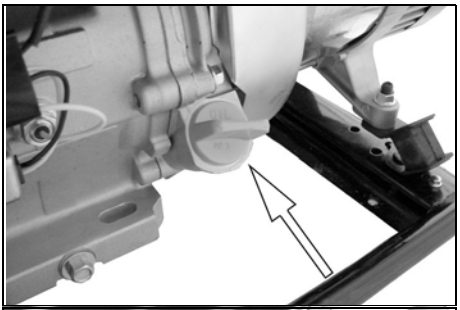


CHECKING THE ENGINE OIL LEVEL

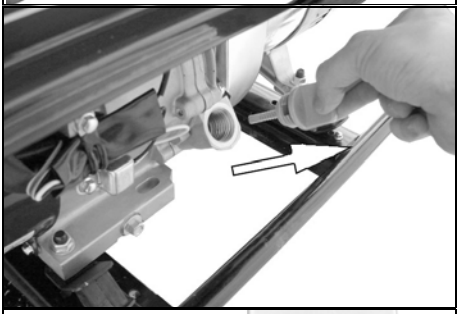
WARNING: TO CARRY OUT THIS CHECK, PLACE THE GENERATOR ON LEVEL GROUND WITH THE ENGINE SWITCHED OFF (O).

WARNING: TAKE CARE NOT TO TOUCH ANY HOT PARTS OF THE GENERATOR WHEN CHECKING THE OIL LEVEL.

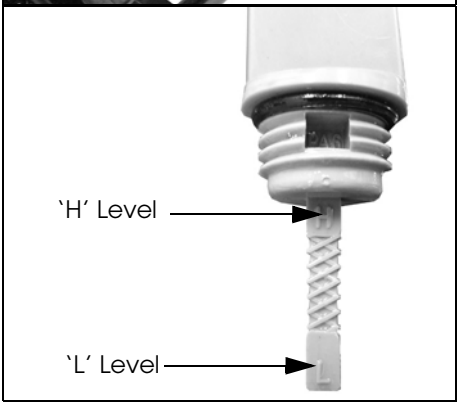
1. Turn the oil filler cap anti-clockwise and remove from the oil tank, wipe the dipstick with a clean cloth.



2. Insert the dipstick back into the oil filler tube and then remove it again. Do not screw in the oil filler cap/dipstick when doing this.



3. If the oil is below the 'L' level on the dipstick, fill the oil reservoir to the 'H' level on the dipstick.
   - Oil Capacity (See "Specifications" on page 20.)
   - We recommend the use of SAE30 oil in this generator.
4. Replace the oil filler cap.



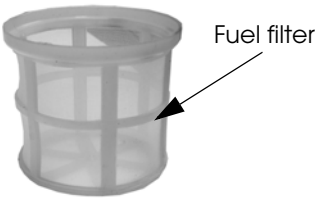
CHECKING THE FUEL LEVEL

1. Check the fuel level on the fuel gauge.
   The fuel gauge will show as red when you have fuel in the tank turning white as the fuel level decreases.

Empty Full

2. To add fuel, open the fuel filler cap.

3. Just inside the fuel tank is a fuel tank filter, check this filter periodically and remove any contaminants which may have accumulated.
4. Slowly add fuel to the fuel tank (maximum 25L) watching the fuel level gauge as you do so.



RECOMMENDED FUEL

We recommend the use of standard unleaded petrol.

WARNING: ALWAYS REFUEL IN A WELL VENTILATED AREA AWAY FROM ANY HEAT SOURCES.

WARNING: ALLOW THE UNIT TO COOL DOWN BEFORE REFUELLING.

WARNING: DO NOT LEAVE FUEL WITHIN THE REACH OF CHILDREN.

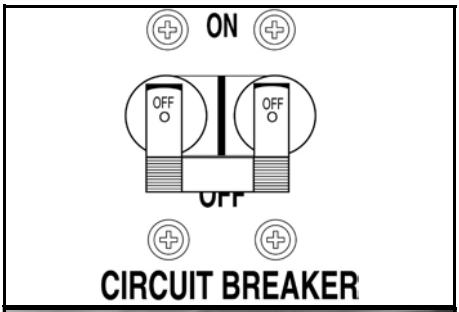
NOTE: Do not overfill the fuel tank.

5. Replace the fuel filler cap securely.

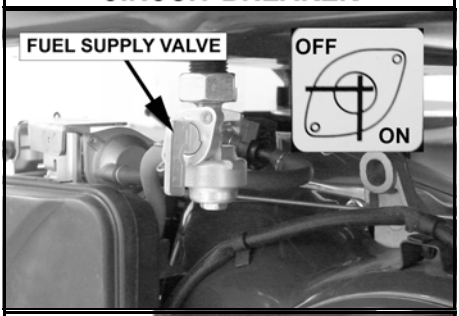
USING YOUR GENERATOR

STARTING THE ENGINE

1. Remove all connections from the AC sockets.
2. Set the AC breaker to the off position.

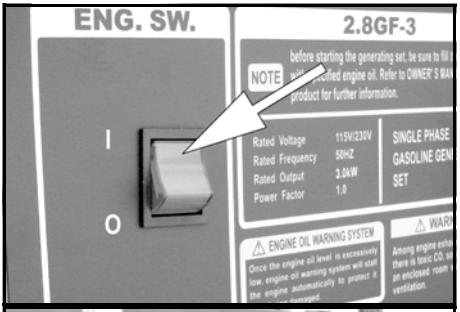


3. Turn on the fuel supply valve.



4. If you are starting the generator 'cold' set the choke lever to the ON position. If the generator is warm skip this step.

5. Set the engine switch to 'I'



6. Pull the starting handle lightly until you start to feel resistance and then pull up sharply to start the generator.

   NOTE: You may have to do this more than once.

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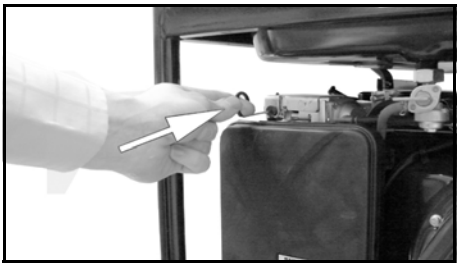
WARNING: ONCE THE GENERATOR HAS STARTED, RELEASE THE STARTING HANDLE SLOWLY TO AVOID INJURY/DAMAGE AS IT WHIPS BACK.

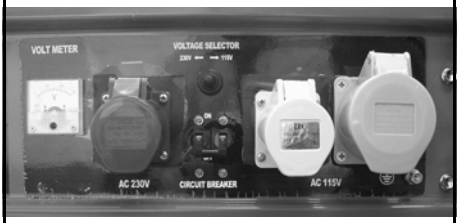
7. Once the engine has warmed up, set the choke lever to the OFF position (pushed in).



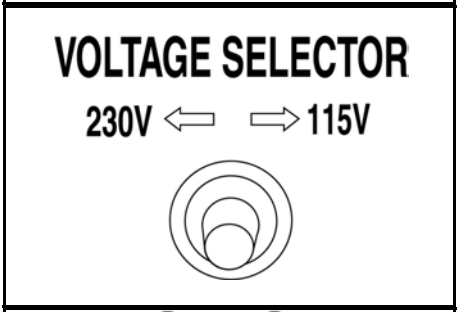
CONNECTING ELECTRICAL DEVICES

The generator can supply both 230V AC and 115V AC.

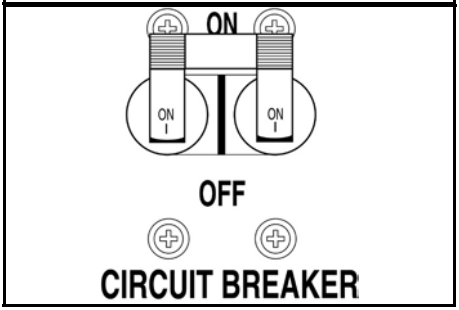
1. Connect the appliance to the generator starting with the device that draws the most current.



2. Select the voltage that you require using the voltage selector switch.

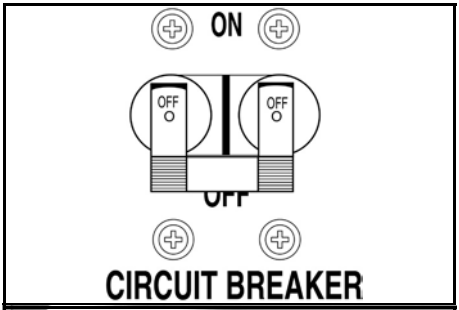


3. Set the circuit breaker to 'ON'.

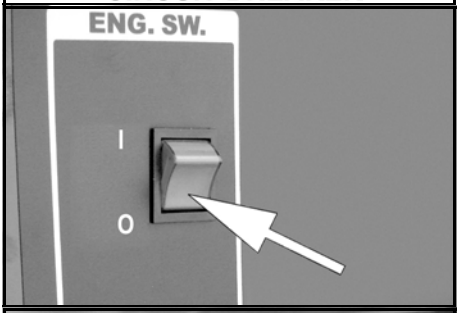


SHUTTING DOWN THE GENERATOR

1. Disconnect all appliances connected to the generator.
2. Set the circuit breaker to 'OFF'.

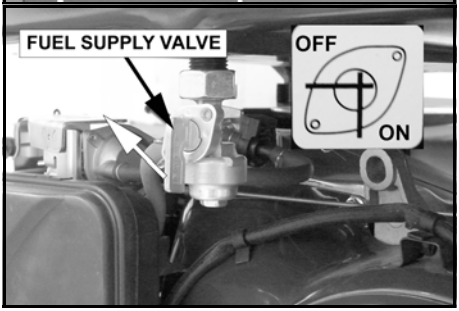


3. Set the engine switch to 'O'.



4. Set the fuel supply valve to OFF.

   NOTE: To stop the generator in an emergency simply set the engine switch to 'O'



MAINTENANCE

CHANGING THE ENGINE OIL

CAUTION: PROLONGED EXPOSURE TO USED ENGINE OIL IS DANGEROUS, ALWAYS WASH YOUR HANDS THOROUGHLY AFTER HANDLING USED ENGINE OIL.

1. Unscrew and remove the oil filler cap/dipstick.
2. Place a oil collection tray under the drain plug.
3. Unscrew the drain plug, and allow the used engine oil to drain from the crankcase into the oil collection tray.

   NOTE: Drain the engine oil when the engine is warm, this will ensure the oil flows out quicker.
4. Replace the drain plug and it ring seal.
5. Fill the crankcase with engine oil to the 'H' mark on the dipstick. See page 9.
6. Replace the oil filler cap/dipstick.

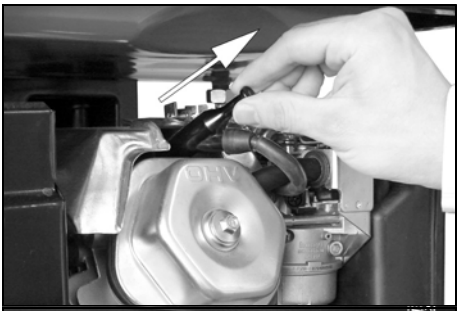
ENVIRONMENTAL PROTECTION

One of the most damaging sources of pollution is oil, Do not throw away used engine oil in with your domestic trash or down drains and sinks. Place it in a leak proof container and take it to your local waste disposal site.

CHANGING THE SPARK PLUGS

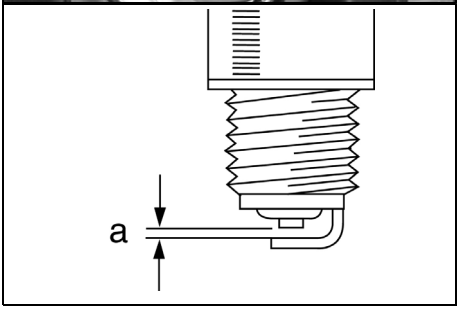
CAUTION: ALLOW THE ENGINE TO COOL BEFORE REMOVING THE SPARK PLUG.

1. Remove the spark plug cap from the spark plug.



2. Use the supplied spark plug spanner to remove the spark plug.
3. Remove any carbon that has accumulated around the sparkplug.

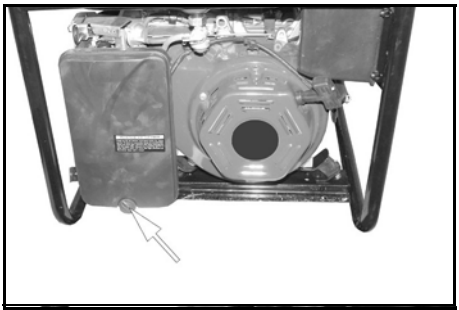
4. Check the spark plug gap (a), it should be between 0.7 and 0.8 mm, adjust if necessary.
5. Check the overall condition of the spark plug and replace if necessary.
6. Reinstall the spark plug and replace the spark plug cap.



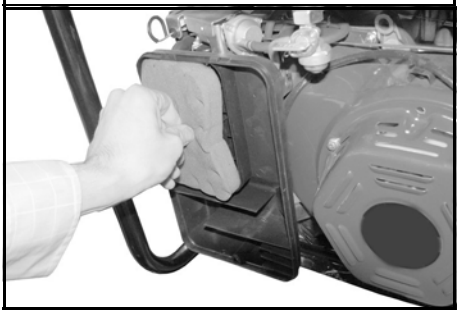
CHECKING THE AIR FILTER

CAUTION: DO NOT USE THE GENERATOR WITHOUT THE AIR FILTER FITTED, THIS CAN DAMAGE THE GENERATOR.

1. Unlock and remove the air filter cover.



2. Remove the air filter element.
3. Make sure that the air filter is clean and not damaged.
   - If the air filter is damaged contact Clarke spare parts department for a replacement See page 25.
   - If the filter is dirty, wash the filter in a solution of warm water and mild detergent and rinse thoroughly. Leave the filter to dry completely, once it is dry immerse the filter in clean engine oil and sqeeze the filter to remove excess oil.

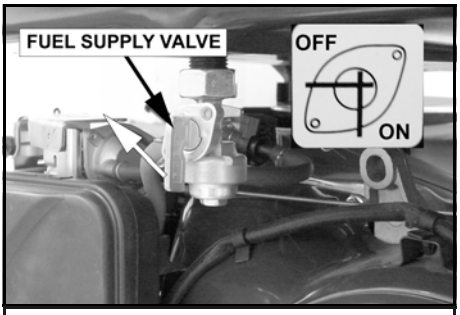


WARNING: DO NOT USE INFLAMMABLE SOLVENTS OR PETROL TO CLEAN THE AIR FILTER.

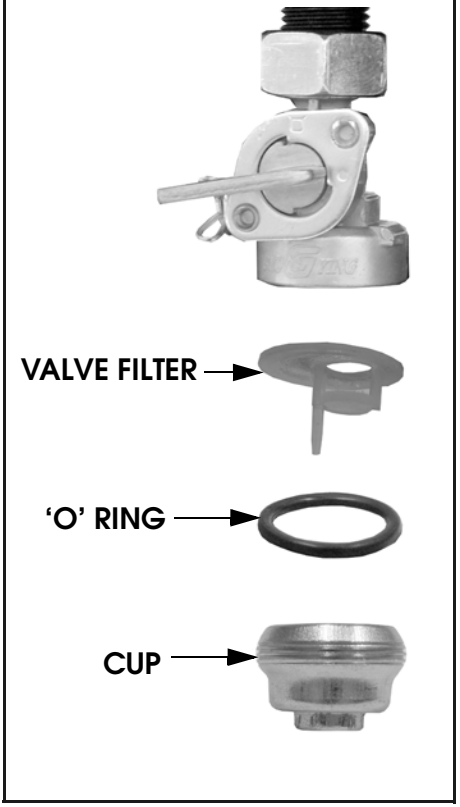
4. Replace the filter back into its original position and replace the air filter cover.

CLEANING THE FUEL VALVE FILTER / DRAINING THE FUEL TANK

1. Set the fuel supply valve to OFF.



2. Unscrew and remove the cup, then remove the valve filter and 'O' ring.
3. Wash these parts in a non-inflammable solvent. Make sure that the valve filter is not damaged.
4. Place an approved petrol storage container under the fuel valve and set the fuel supply valve to 'ON'.
   - The fuel in the tank will drain into the container.
5. Replace the 'O' ring and valve filter and tighten the cup as far as possible.



TROUBLESHOOTING

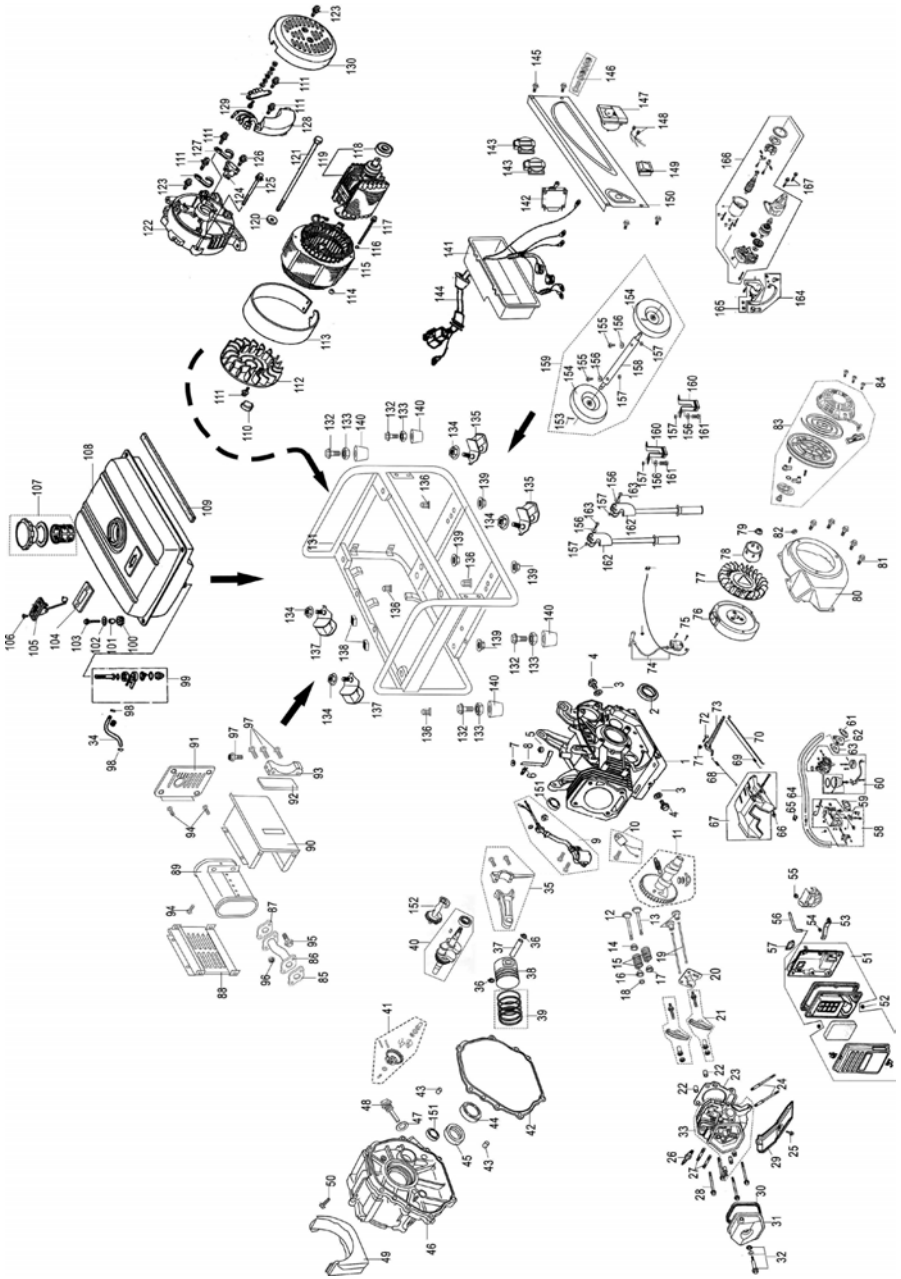
	CAUSE	SOLUTION
The generator fails to start	Engine switch is off	Set the engine switch to 'I'
	Not enough oil in the generator	Add more oil, See page 9
	No fuel	Add more fuel, See page 10
	Spark plugs not working correctly	Change the spark plugs, See page 16
The generator fails to generate electricity	The device you are trying to power is faulty	Make sure the device you want to power is working properly
	The AC breaker has activated	Switch the AC breaker to "on"
The generator is difficult to start	The air filter is dirty	Clean the air filter, See page 17
	The fuel filter is dirty	Clean the fuel filter, See page 18

If this does not solve your problem, please contact the clarke service department. See page 25

SPECIFICATIONS

Engine	Engine Model	173F
	Type	Petrol air cooled 4-Stroke OHV single cylinder
	Displacement (cm^3)	242
	Max. power output (hp/rpm)	8/3600
	Ignition type	TCI
	Start system	Recoil
	Fuel tank capacity (L)	25
	Fuel consumption (L/hr.)	1.9
	Duration of run (h)	13
	Engine oil capacity (L)	1.1
	Guaranteed sound power (L_{WA} dB)	97
Generator	Rated Frequency (Hz)	50
	Rated Voltage (V)	230
	Rated Power (kVA)	3.0
	Max. Power (kVA)	3.0
Dimensions	Length (mm)	683
	Width (mm)	539
	Height (mm)	548
	Unpacked Weight (kg)	65

EXPLODED DIAGRAM & PARTS LIST



EXPLODED DIAGRAM & PARTS LIST

NO	DESCRIPTION	QTY	PART NO
1	Crankcase	1	RKFG3050001
2	Oil seal, crankshaft	1	RKFG3050002
3	Washer	2	RKFG3050003
4	Drain plug	2	RKFG3050004
5	Oil seal, regulating sway bar	1	RKFG3050005
6	Split pin	1	RKFG3050006
7	Washer	1	RKFG3050007
8	Regulating sway bar	1	RKFG3050008
9	Oil sensor	1	RKFG3050009
10	Diode	1	RKFG3050010
11	Camshaft Assy	1	RKFG3050011
12	Exhaust valve	1	RKFG3050012
13	Intake valve	1	RKFG3050013
14	Spring retainer, exhaust valve	1	RKFG3050014
15	Valve spring	2	RKFG3050015
16	Spring seat, exhaust valve	1	RKFG3050016
17	Spring seat, intake valve	1	RKFG3050017
18	Cap, exhaust valve	1	RKFG3050018
19	Pusher	2	RKFG3050019
20	Pusher guide	1	RKFG3050020
21	Valve rocker Assy	2	RKFG3050021
22	Set pin	2	RKFG3050022
23	Gasket, cylinder head	1	RKFG3050023
24	Stud M6×M8×106	2	RKFG3050024
25	Bolt M6×12	1	RKFG3050025
26	Spark plug F6RTCU	1	RKFG3050026
27	Stud M8×35	2	RKFG3050027
28	Flange bolt	4	RKFG3050028

NO	DESCRIPTION	QTY	PART NO
29	Lead wind cover	1	RKFG3050029
30	Gasket, cylinder head cover	1	RKFG3050030
31	Cylinder head cover Assy	1	RKFG3050031
32	Bolt	1	RKFG3050032
33	Cylinder head Assy	1	RKFG3050033
34	Outlet pipe	1	RKFG3050034
35	Connecting rod Assy	1	RKFG3050035
36	Piston pin circlip	2	RKFG3050036
37	Piston pin	1	RKFG3050037
38	Piston	1	RKFG3050038
39	Piston ring assy	1	RKFG3050039
40	Crankshaft sets	1	RKFG3050040
41	Driven gear set, regulator	1	RKFG3050041
42	Gasket, crankcase	1	RKFG3050042
43	Set pin	2	RKFG3050043
44	Bearing 6207	1	RKFG3050044
45	Oil seal, crankshaft	1	RKFG3050045
46	Crankcase cover	1	RKFG3050046
47	Dipstick	1	RKFG3050047
48	Seal	1	RKFG3050048
49	Guard crankcase cover	1	RKFG3050049
50	Bolt M5×12	3	RKFG3050050
51	Air cleaner Assy	1	RKFG3050051
52	Nut M5	6	RKFG3050052
53	Air cleaner stay	1	RKFG3050053
54	Nut M6	1	RKFG3050054
55	Boot, vent pipe	1	RKFG3050055
56	Air duck	1	RKFG3050056

EXPLODED DIAGRAM & PARTS LIST

NO	DESCRIPTION	QTY	PART NO
57	Gasket, air cleaner	1	RKFG3050057
58	Manual choke Assy	1	RKFG3050058
59	Gasket, air cleaner	1	RKFG3050059
60	Carburetor Assy	1	RKFG3050060
61	Gasket, inlet	1	RKFG3050061
62	Connecting block, carburetor	1	RKFG3050062
63	Gasket, carburetor	1	RKFG3050063
64	Check valve Assy	1	RKFG3050064
65	Clamp, check valve	1	RKFG3050065
66	Bolt M6×12	2	RKFG3050066
67	Supporting plate set	1	RKFG3050067
68	Back spring	1	RKFG3050068
69	Fine regulating spring	1	RKFG3050069
70	Pulling rod	1	RKFG3050070
71	Nut M6	1	RKFG3050071
72	Lock bolt	1	RKFG3050072
73	Regulating arm	1	RKFG3050073
74	Ignition coil unit	1	RKFG3050074
75	Bolt M6×30	2	RKFG3050075
76	Flywheel	1	RKFG3050076
77	Flywheel fan	1	RKFG3050077
78	Starting flange	1	RKFG3050078
79	Nut M16×1.25	1	RKFG3050079
80	Fan hood assy	1	RKFG3050080
81	Bolt M6×12	5	RKFG3050081
82	Grommet	1	RKFG3050082
83	Recoil starter	1	RKFG3050083
84	Bolt M6×8	3	RKFG3050084
85	Gasket, outlet	1	RKFG3050085
86	Exhaust pipe	1	RKFG3050086

NO	DESCRIPTION	QTY	PART NO
87	Gasket, exhaust pipe	1	RKFG3050087
88	Outer hood	1	RKFG3050088
89	Muffler	1	RKFG3050089
90	Inner hood	1	RKFG3050090
91	Side hood	1	RKFG3050091
92	Gasket, inner hood	1	RKFG3050092
93	Muffler stay	1	RKFG3050093
94	Flange bolt M6×12	7	RKFG3050094
95	Flange bolt M8×25	2	RKFG3050095
96	Nut M8	2	RKFG3050096
97	Flange bolt M8×16	4	RKFG3050097
98	Tube clip	2	RKFG3050098
99	Fuel cock	1	RKFG3050099
100	Cushion	4	RKFG3050100
101	Fitting brush, fuel tank	4	RKFG3050101
102	Washer	4	RKFG3050102
103	Flange bolt M6×22	4	RKFG3050103
104	Gasket, fuel sensor	1	RKFG3050104
105	Fuel sensor	1	RKFG3050105
106	Screw M5×10	2	RKFG3050106
107	Fuel filler cap comp.	1	RKFG3050107
108	Fuel tank	1	RKFG3050108
109	Stripe, fuel tank	1	RKFG3050109
110	Plug, sump	1	RKFG3050110
111	Screw M5×14	9	RKFG3050111
112	Generator fan	1	RKFG3050112
113	Stator cover	1	RKFG3050113
114	Nut M5	2	RKFG3050114
115	Stator Assy	1	RKFG3050115
116	Spring washer 5mm	6	RKFG3050116

EXPLODED DIAGRAM & PARTS LIST

NO	DESCRIPTION	QTY	PART NO
117	Bolt M5×213	2	RKFG3050117
118	Bearing 6204-2ZN	1	RKFG3050118
119	Rotor Assy	1	RKFG3050119
120	Plain washer	1	RKFG3050120
121	Bolt M10×265	1	RKFG3050121
122	Generator stay	1	RKFG3050122
123	Screw M5×12	3	RKFG3050123
124	Brush Assy	1	RKFG3050124
125	Bolt M6×175	4	RKFG3050125
126	Screw M5×18	1	RKFG3050126
127	Clip A	2	RKFG3050127
128	Voltage regulator	1	RKFG3050128
129	Bolt M5×20	2	RKFG3050129
130	Generator end cover	1	RKFG3050130
131	Frame comp.	1	RKFG3050131
132	Rubber pad, frame	2	RKFG3050132
133	Bolt M6×12	4	RKFG3050133
134	Nut M6	4	RKFG3050134
135	Bottom rubber A	2	RKFG3050135
136	Nut M6	4	RKFG3050136
137	Bottom rubber B	2	RKFG3050137
138	Rubber pad, frame	2	RKFG3050138
139	Nut M8	4	RKFG3050139
140	Cushion, frame	4	RKFG3050140
141	Control panel case	1	RKFG3050141
142	Circuit protector	1	RKFG3050142
143	Consent	2	RKFG3050143
144	Main wire harness Assy	1	RKFG3050144
145	Bolt M6×12	5	RKFG3050145

NO	DESCRIPTION	QTY	PART NO
146	Earth terminal set	1	RKFG3050146
147	Voltmeter	1	RKFG3050147
148	DC terminal	2	RKFG3050148
149	Ignition switch	1	RKFG3050149
150	Control panel	1	RKFG3050150
151	Bearing 6202	2	RKFG3050151
152	Balancing shaft	1	RKFG3050152
153	Split pin	2	RKFG3050153
154	Wheel kit	2	RKFG3050154
155	Bolt M8×60	2	RKFG3050155
156	Flat washer	6	RKFG3050156
157	Screw M8	6	RKFG3050157
158	Wheel axel	1	RKFG3050158
159	Wheel kit Assy	1	RKFG3050159
160	Underpart	2	RKFG3050160
161	Bolt M8×24	2	RKFG3050161
162	Handle bar	2	RKFG3050162
163	Bolt M8×40	2	RKFG3050163
164	Cable, starting motor	1	RKFG3050164
165	Relay, start-up	1	RKFG3050165
166	Starting motor Assy	1	RKFG3050166
167	Bolt M8×35	2	RKFG3050167

PARTS AND SERVICING

For Parts & Servicing, please contact your nearest dealer, or CLARKE International, on one of the following numbers.

PARTS & SERVICE TEL: 020 8988 7400
PARTS & SERVICE FAX: 020 8558 3622
or e-mail as follows:
PARTS: Parts@clarkeinternational.com
SERVICE: Service@clarkeinternational.com

DECLARATION OF CONFORMITY

CE

Clarke®
INTERNATIONAL
Hemnall Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

Product Description:	Petrol Powered Generator
Model number(s):	FG3050
Serial / batch Number:	N/A
Date of Issue:	26/02/2010
(Noise Conformity)	
Notified Body:	Societe Nationale De Certification ETD'
	Homologation S.A.R.L (SNCH)
	11 Rout De Sandweiler
	5230 Sandweiler
	Luxembourg
Technical Documentation Holder:	Alan Pond
	Clarke International
	2a Shrubland Road
	London E10,7RB
	UK
Conformity Assessment Procedure:	to 2000/14/EC Annex VI
Manufacturer:	Clarke International
Noise Related Value:	2.1 kW
Measured Sound Power Level:	93dB
Guaranteed Sound Power Level:	97 dB

FG3050-RV3

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DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

2004/108/EC	*Electromagnetic Compatibility Directive, (amended by 93/68/EEC)*
2006/42/EC	*Machinery Directive.*
2006/95/EC	*Low Voltage Equipment Directive, (amended by 93/68/EEC).*
2000/14/EC	*Noise Emissions Directive (amended by 2005/88/EC).*
97/68/EC	*Emission of Gaseous Particulates (amended by 2004/26/EC)*

The following standards have been applied to the product(s):

EN 60204-1:1997+A1, EN 12601:2001, EN 55014-1:2006+A1:2009, EN 55014-2:2000, EN 55012:2002

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2006

Signed:

J.A. Clarke
Director

FG3050-RV3

Page 2 of 2

A SELECTION FROM THE VAST RANGE OF

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QUALITY PRODUCTS

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From DIY to industrial, Plus air tools, spray guns and accesories.

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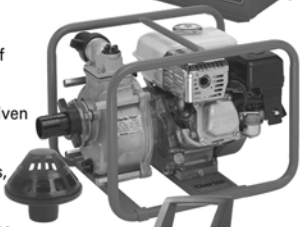

PARTS & SERVICE: 0208 988 7400
E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com
SALES: UK 01992 565333 or Export 00 44 (0)1992 565335
Clarke® INTERNATIONAL Hemnall Street, Epping, Essex CM16 4LG
www.clarkeinternational.com